

# Supreme M4 Assembly Instructions

## Table of Contents

<b>1. Assembling the Motor Unit's Parts .....</b>	<b>2</b>
<b>2. Assembling the Diaphragms .....</b>	<b>3</b>
<b>3. Assembling the Active Brush .....</b>	<b>4</b>
<b>4. Assembling the Motor Unit .....</b>	<b>5</b>
<b>5. Assembling the Driving System and Side Cover .....</b>	<b>6</b>
<b>6. Assembling the driving system and Side Cover on the other side of the robot .....</b>	<b>9</b>
<b>7. Assembling the Floating Cable .....</b>	<b>11</b>
<b>8. Positioning the Float .....</b>	<b>13</b>
<b>9. Positioning the Brush Covers.....</b>	<b>14</b>
<b>10. Assembling the Outer Casing.....</b>	<b>15</b>
<b>11. Assembling the Impeller Cover .....</b>	<b>16</b>
<b>12. Assembling the Handle .....</b>	<b>17</b>
<b>13. Assembling the Brushes .....</b>	<b>18</b>

# Supreme M4 Assembly Instructions

## 1. Assembling the Motor Unit's Parts



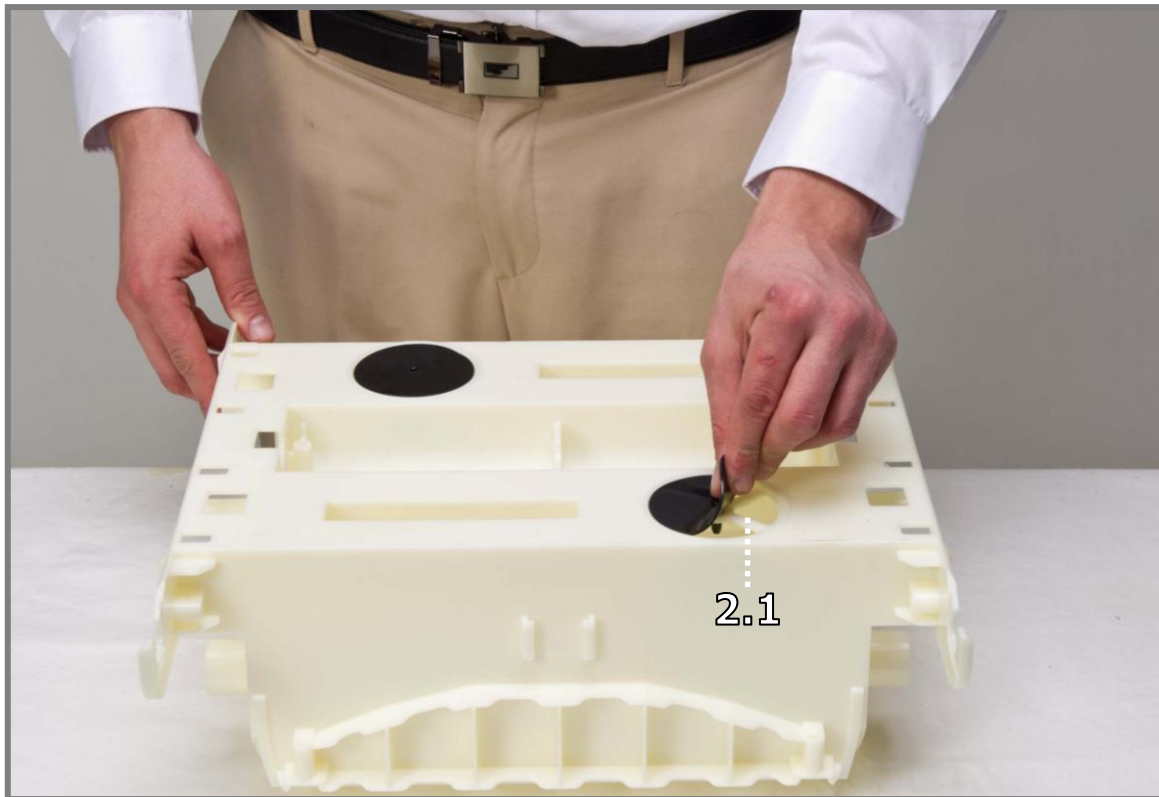
**Step 1.1**  
Secure the impeller with a 4X25 screw.



**Step 1.2**  
Secure the impeller protector cylinder with 4 KA50X12 screws.

# Supreme M4 Assembly Instructions

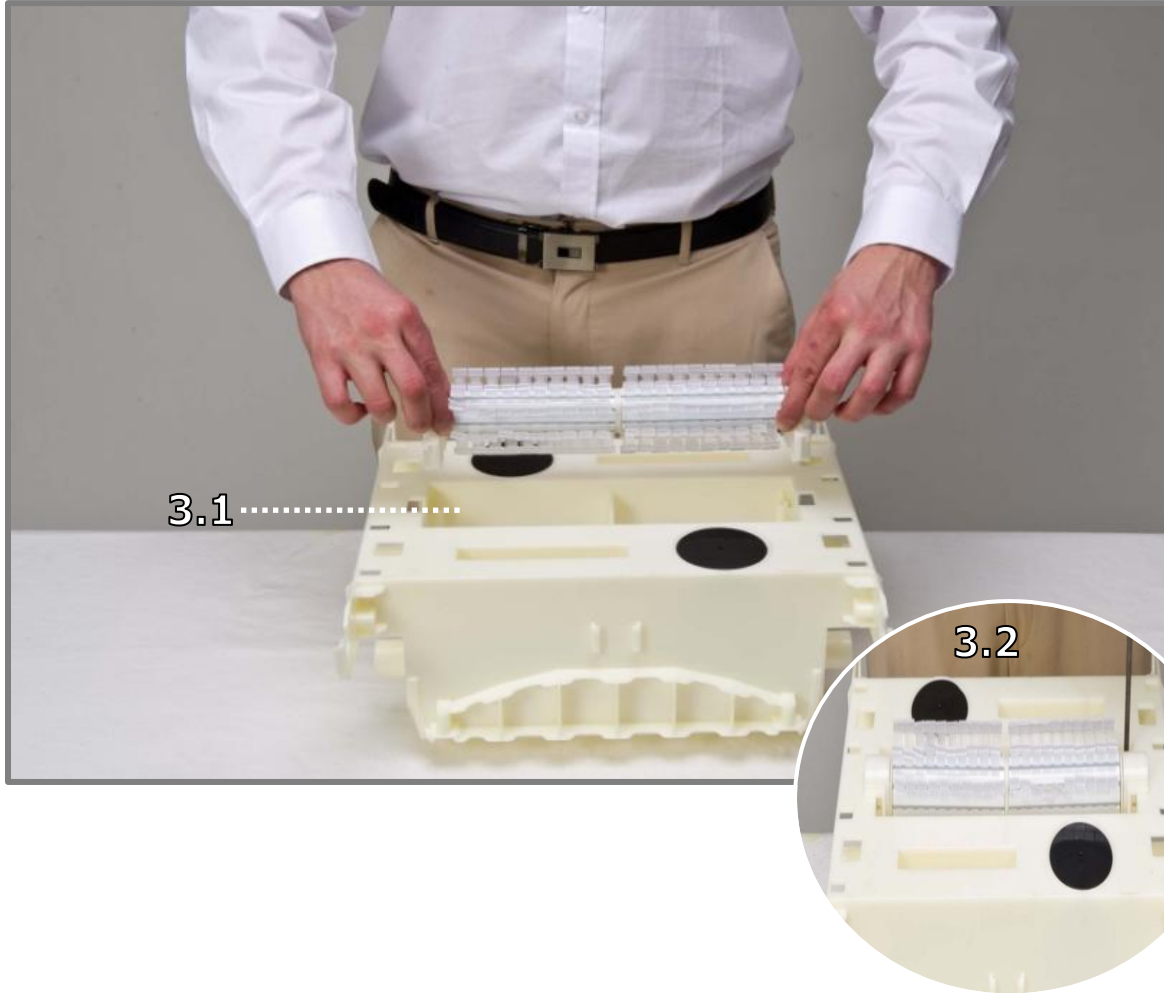
## 2. Assembling the Diaphragms



**Step 2.1**  
Insert two  
diaphragms.

# Supreme M4 Assembly Instructions

## 3. Assembling the Active Brush

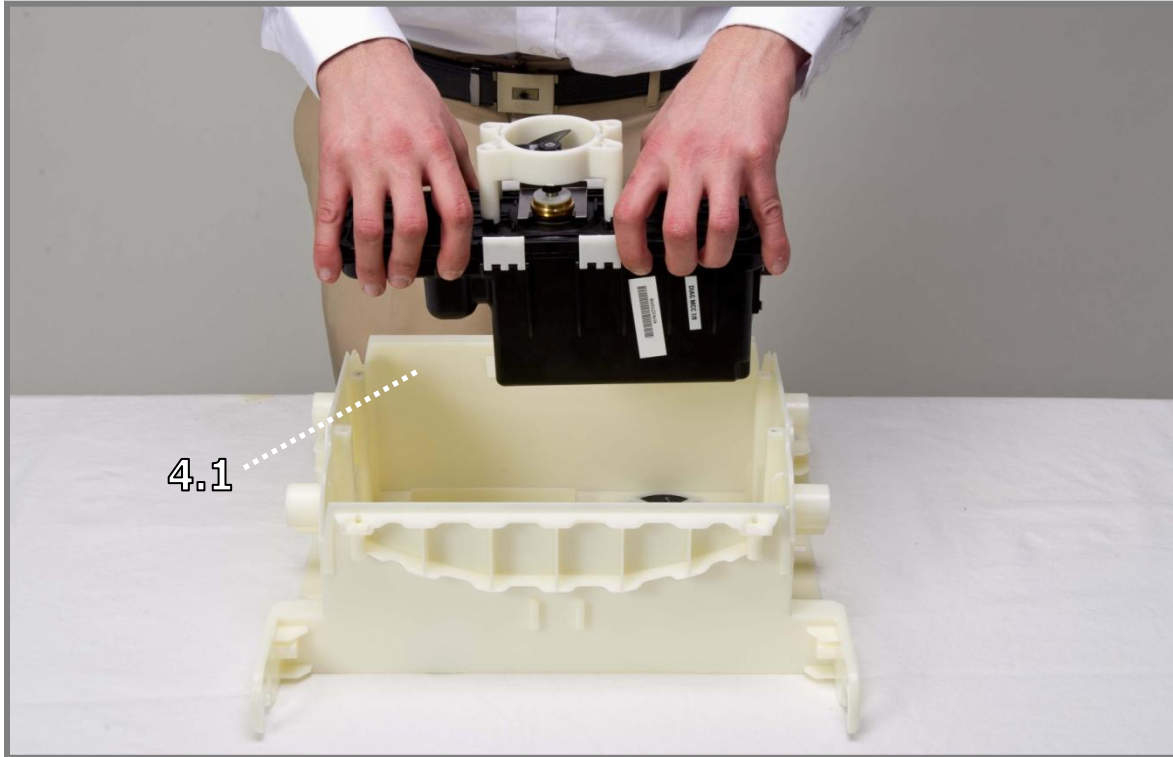


**Step 3.1**  
Place the Active  
Brush in its place.

**Step 3.2**  
Secure the Active  
Brush in place with  
4X KA50X20  
screws.

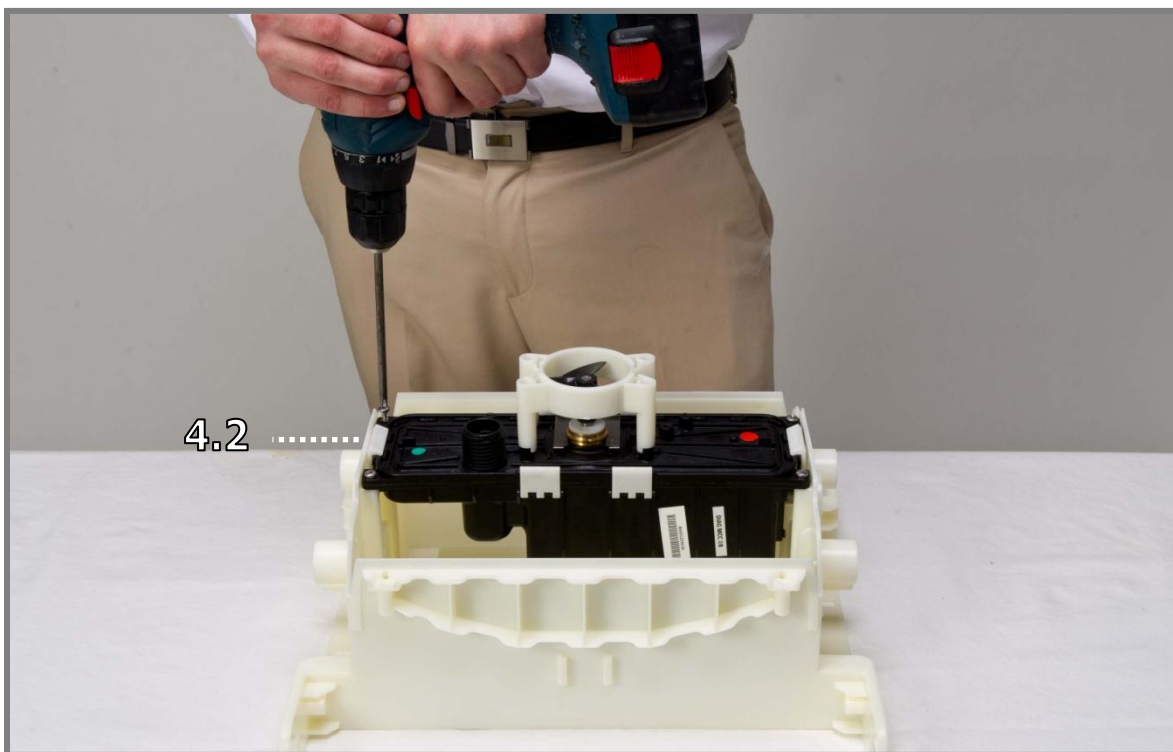
# Supreme M4 Assembly Instructions

## 4. Assembling the Motor Unit



### Step 4.1

There is only one way to place the motor unit in the frame.

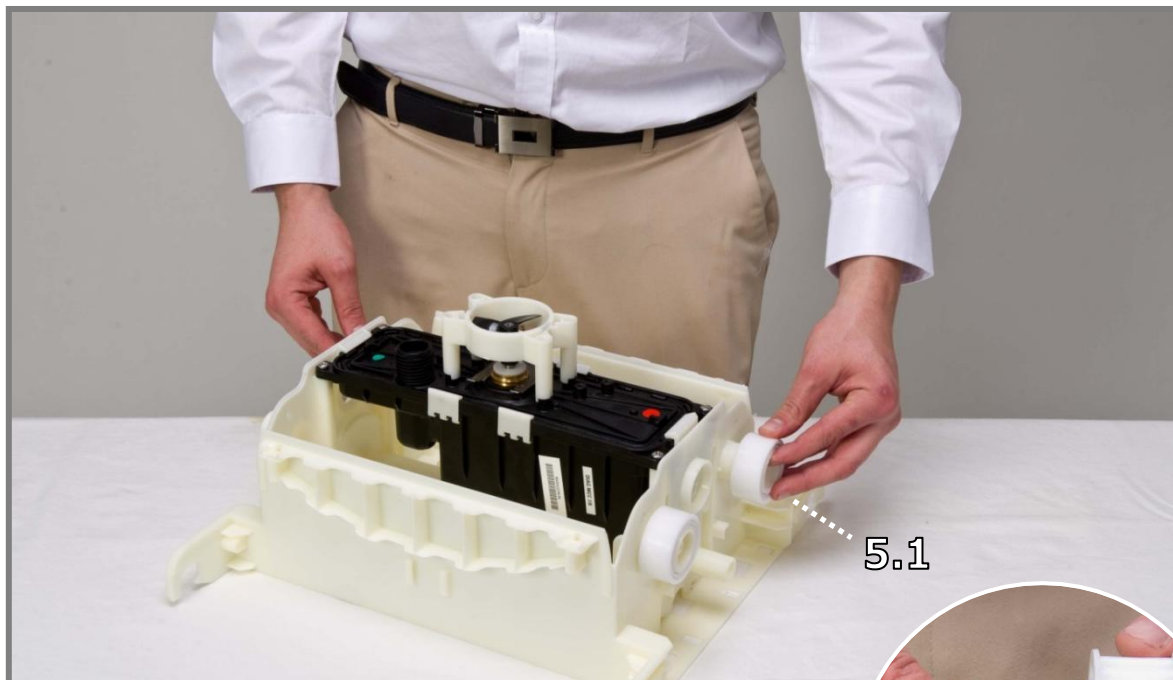


### Step 4.2

Secure the motor unit to the frame with 4X KA50X20 screws.

# Supreme M4 Assembly Instructions

## 5. Assembling the Driving System and Side Cover



### Step 5.1

Place the guide wheels on the side of the motor shaft.



### Step 5.2

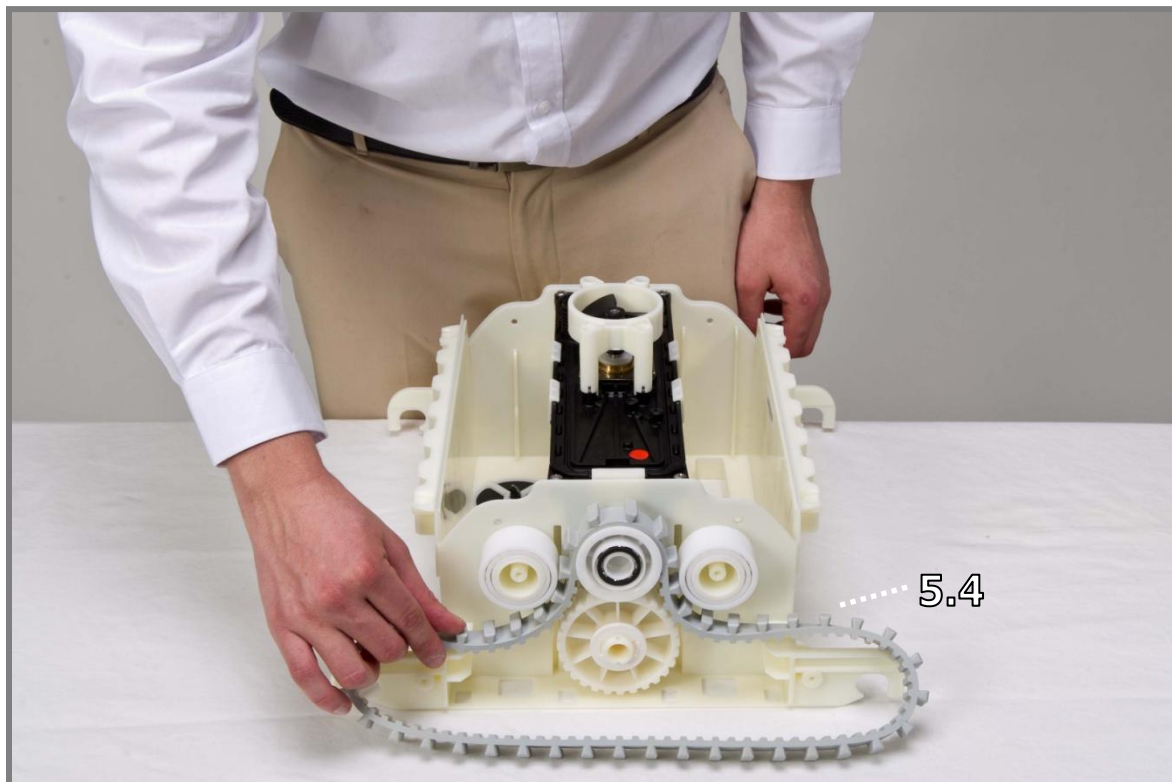
Put the hexagon adaptor into the pulley.



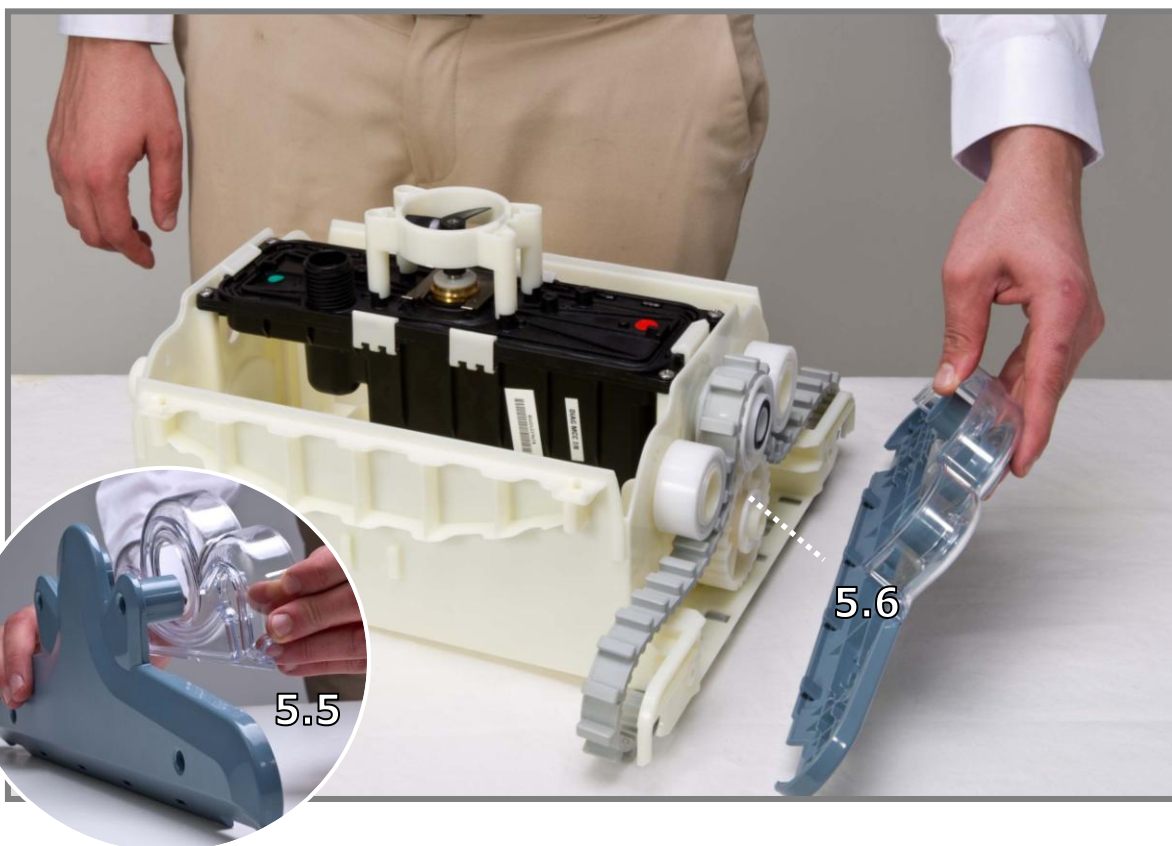
### Step 5.3

Put the pulley and the Active Brush gear in their places.

# Supreme M4 Assembly Instructions



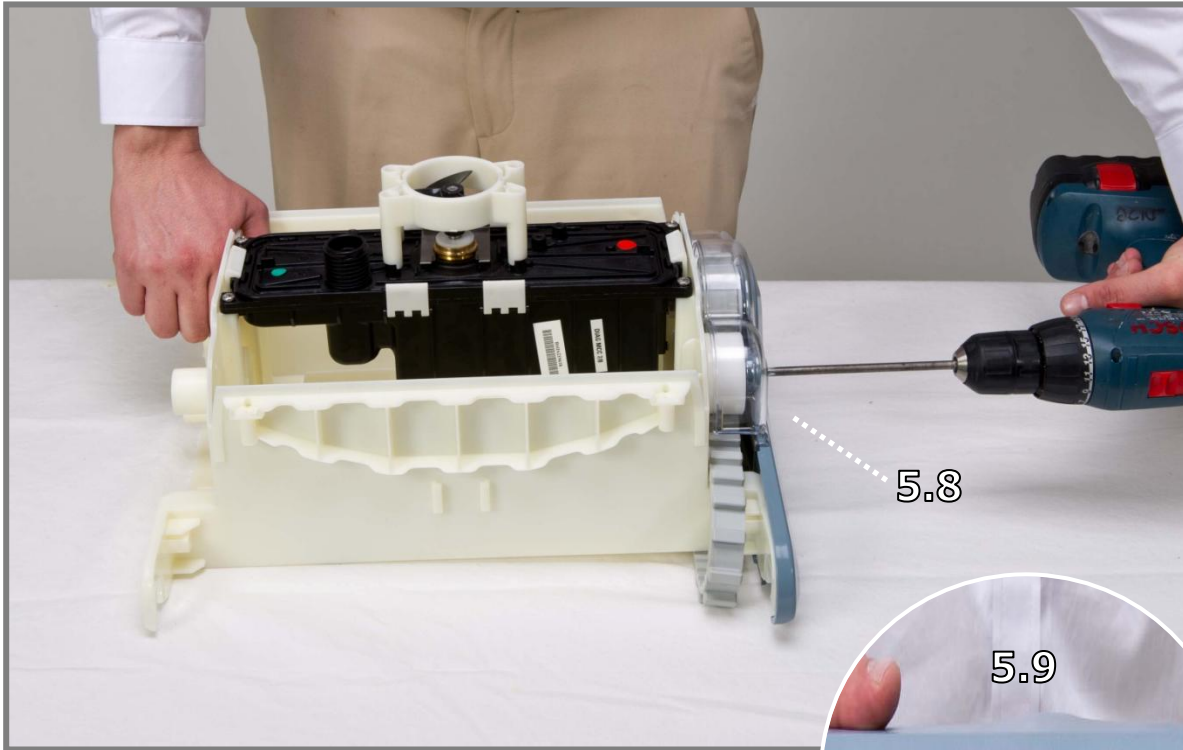
**Step 5.4**  
Place the track in its place as shown on both sides of the robot.



**Step 5.5**  
Assemble the track safety cover on the side panel.

**Step 5.6**  
Put the side panel into its place.

# Supreme M4 Assembly Instructions



## Step 5.8

Secure the side panel in place with 4 KA50X20 screws.

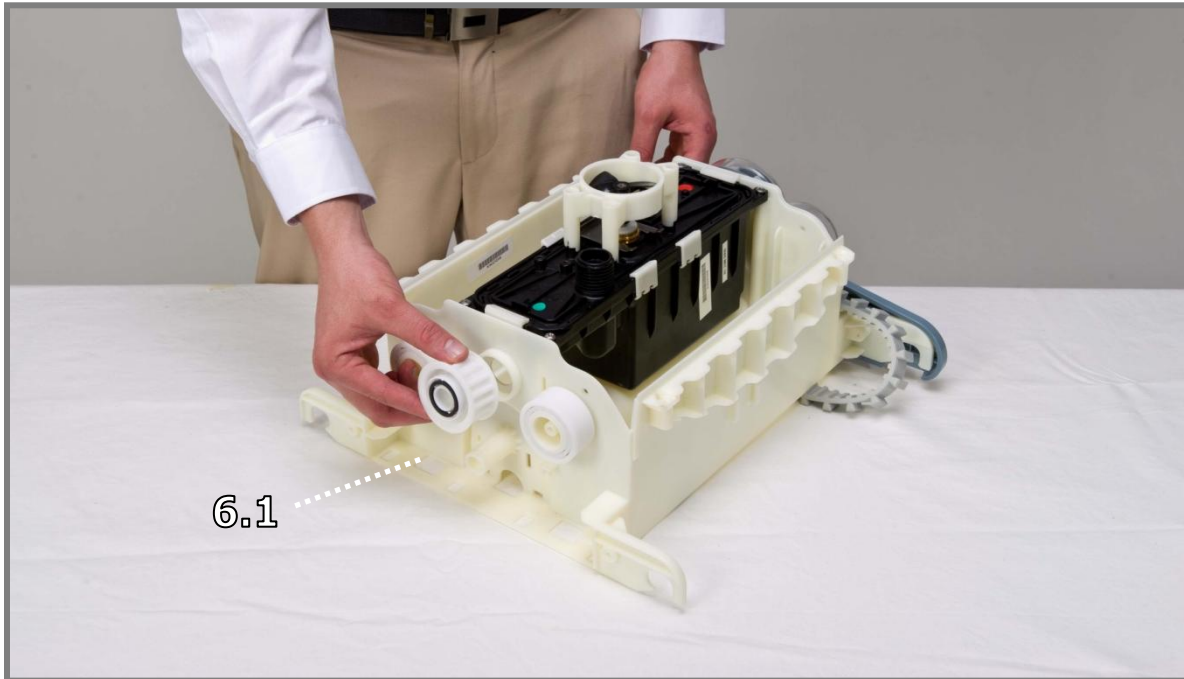
## Step 5.9

Make sure the side panel clips are in their places as shown in the picture

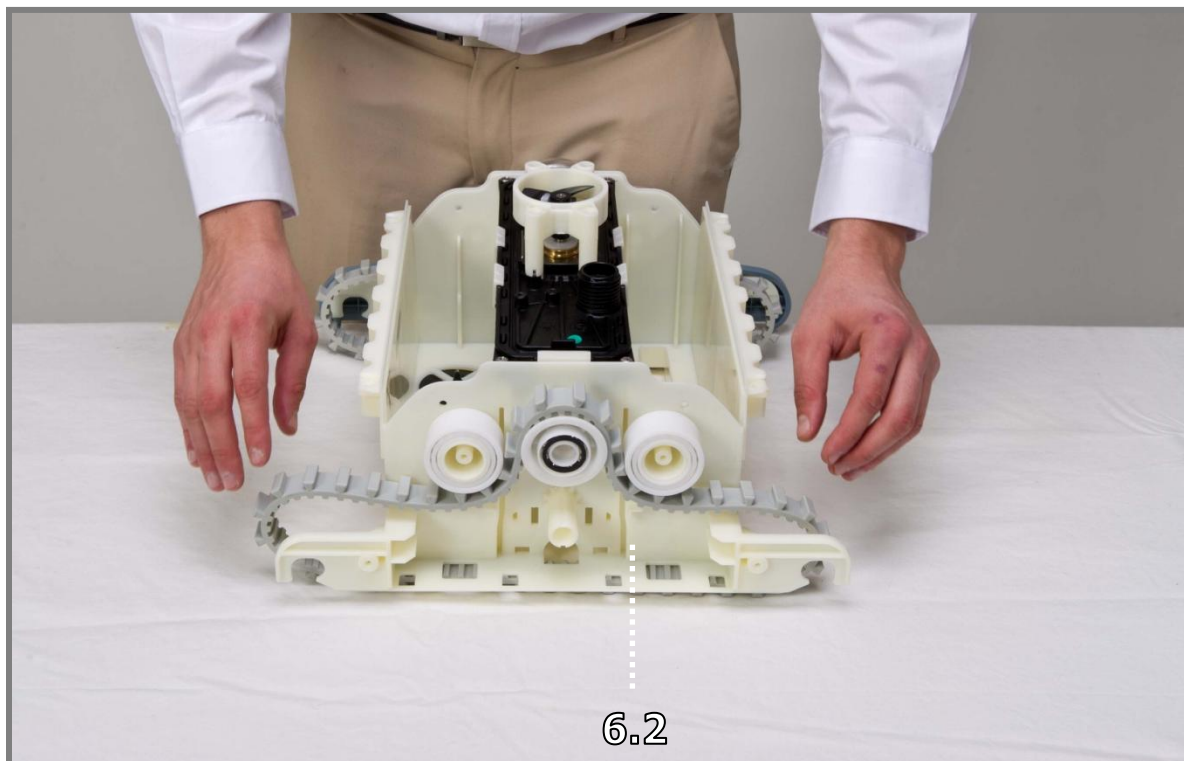


# Supreme M4 Assembly Instructions

## 6. Assembling the driving system and Side Cover on the other side of the robot

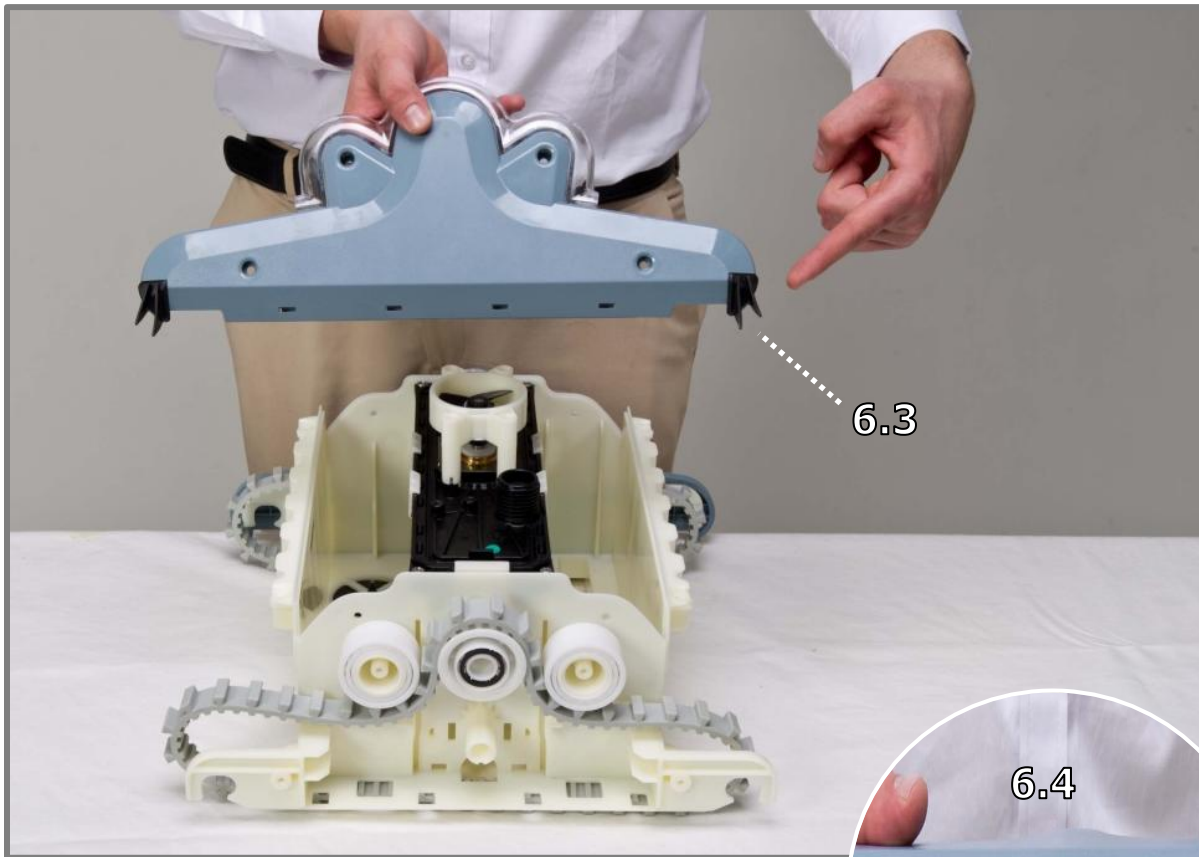


**Step 6.1**  
Place the guide wheels and pulley on the other side of the frame.



**Step 6.2**  
put the track in place as shown.

# Supreme M4 Assembly Instructions

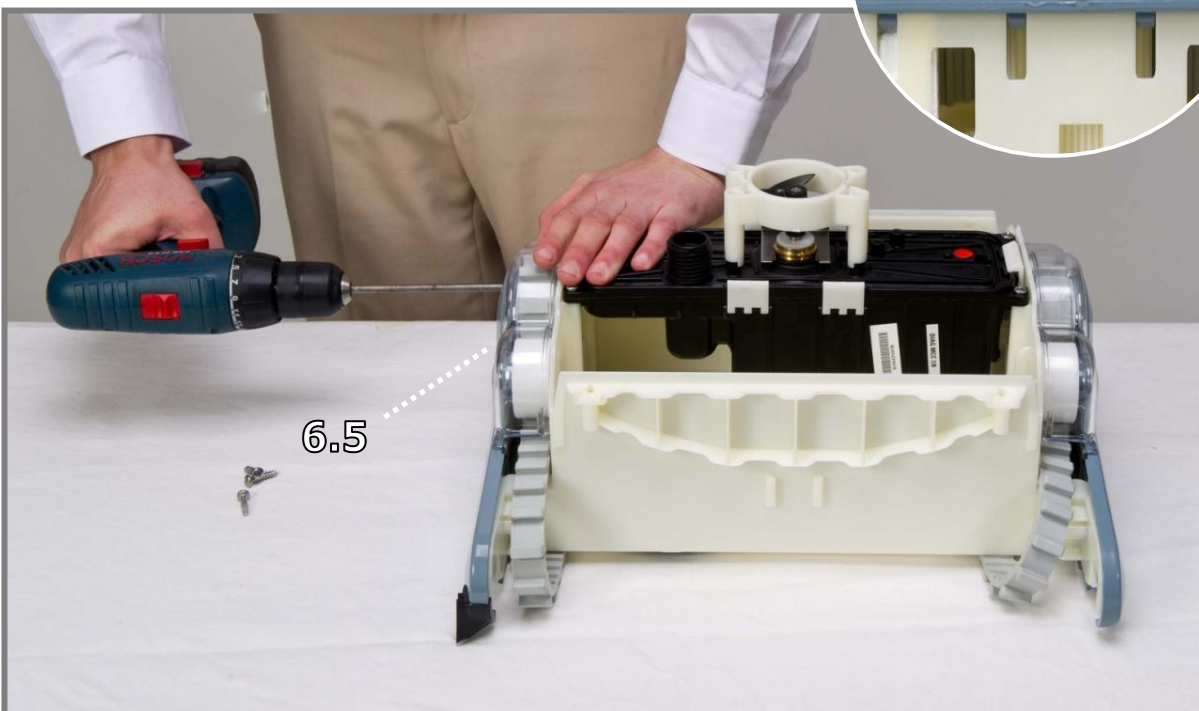


## Step 6.3

Assemble the side panel with the fins facing out.

## Step 6.4

Make sure the side panel clips are in their places as shown in the picture

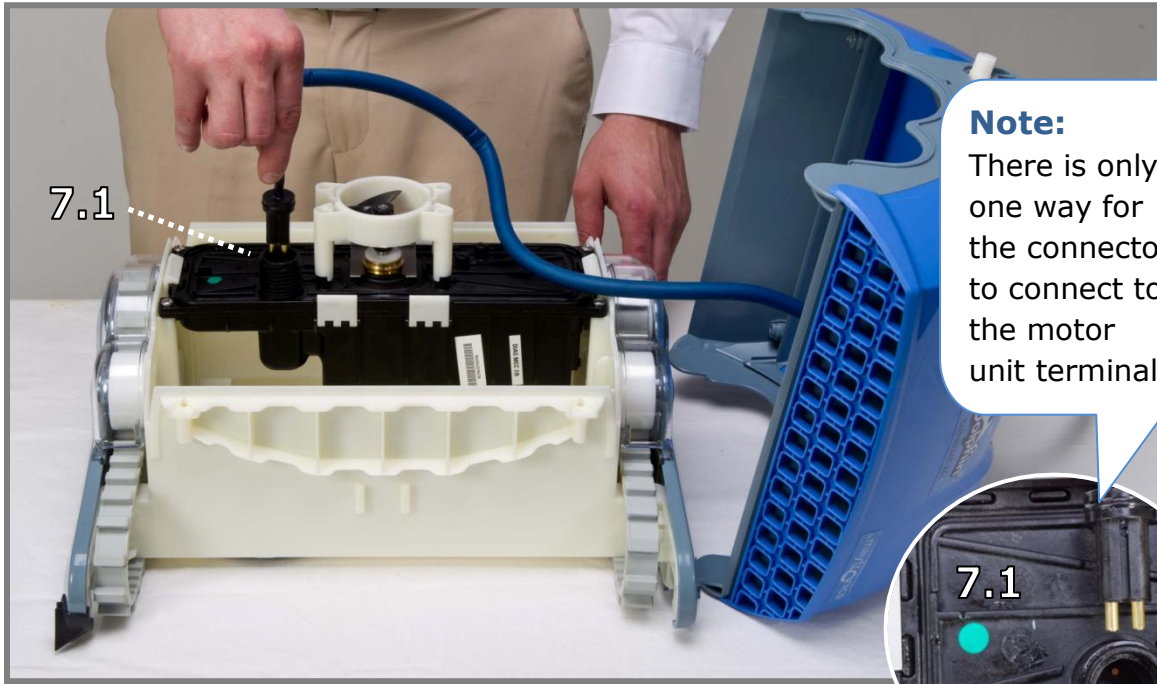


## Step 6.5

Secure the side panel in place with 4 KA50X20 screws.

# Supreme M4 Assembly Instructions

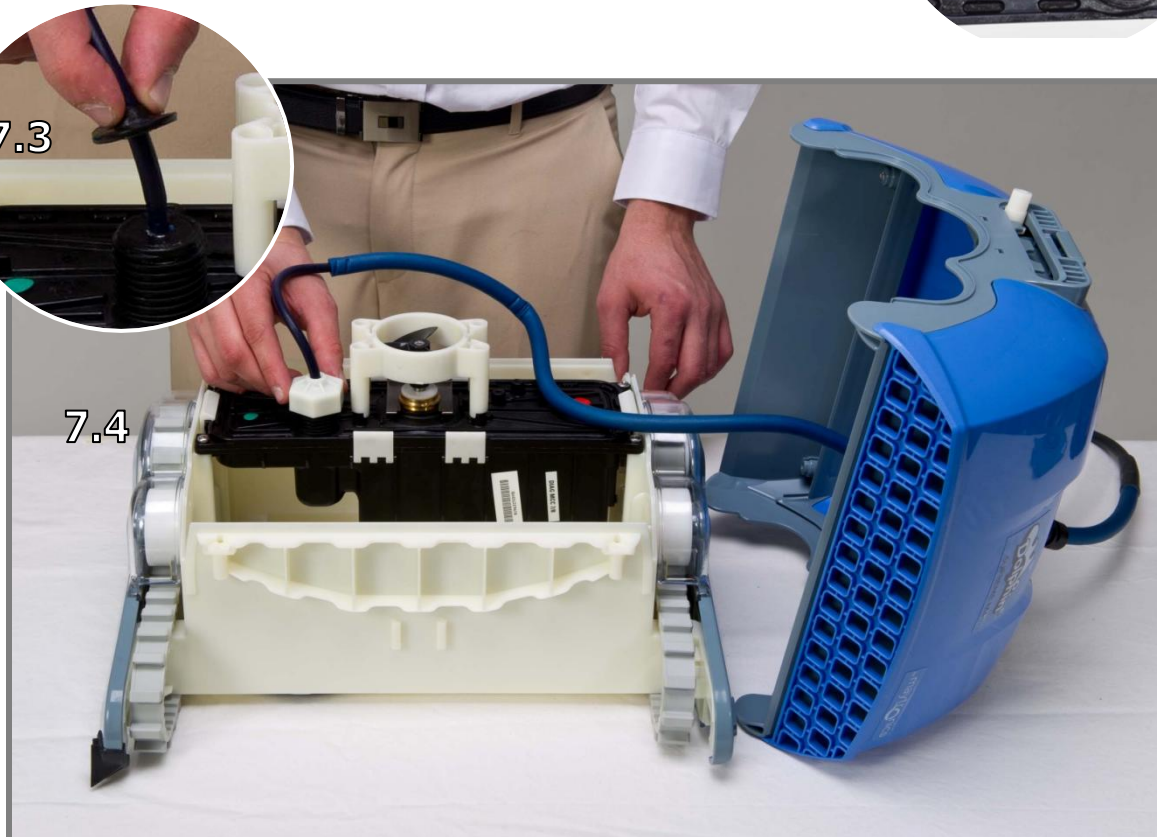
## 7. Assembling the Floating Cable



**Note:**  
There is only one way for the connector to connect to the motor unit terminal.

**Step 7.1**  
Insert the floating cable to the motor unit.

**Step 7.2**  
Connect the cable's retrofit to motor unit (mind the slot shape) and press it firmly.



**Step 7.3**  
Press the seal firmly to the terminal.

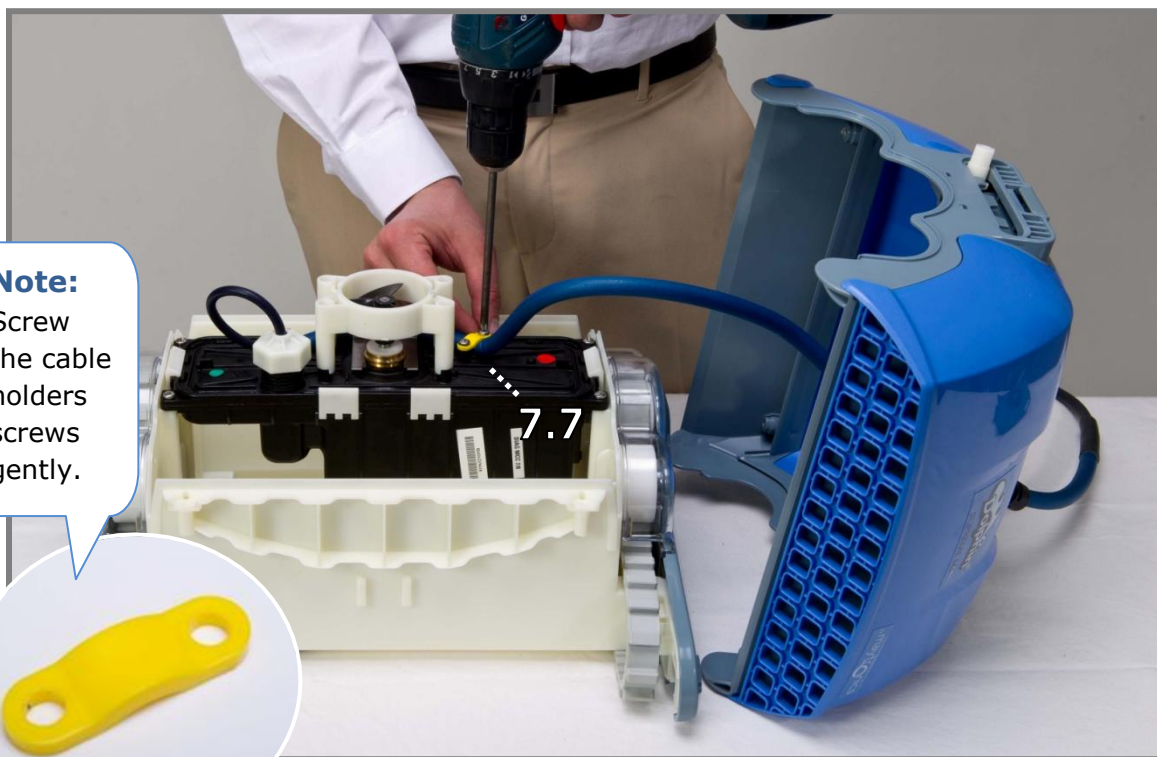
**Step 7.4**  
Tighten the nut properly by hand.

# Supreme M4 Assembly Instructions



**Step 7.5**  
Position the floating cable on the motor unit.

**Step 7.6**  
The cable position on the motor unit.

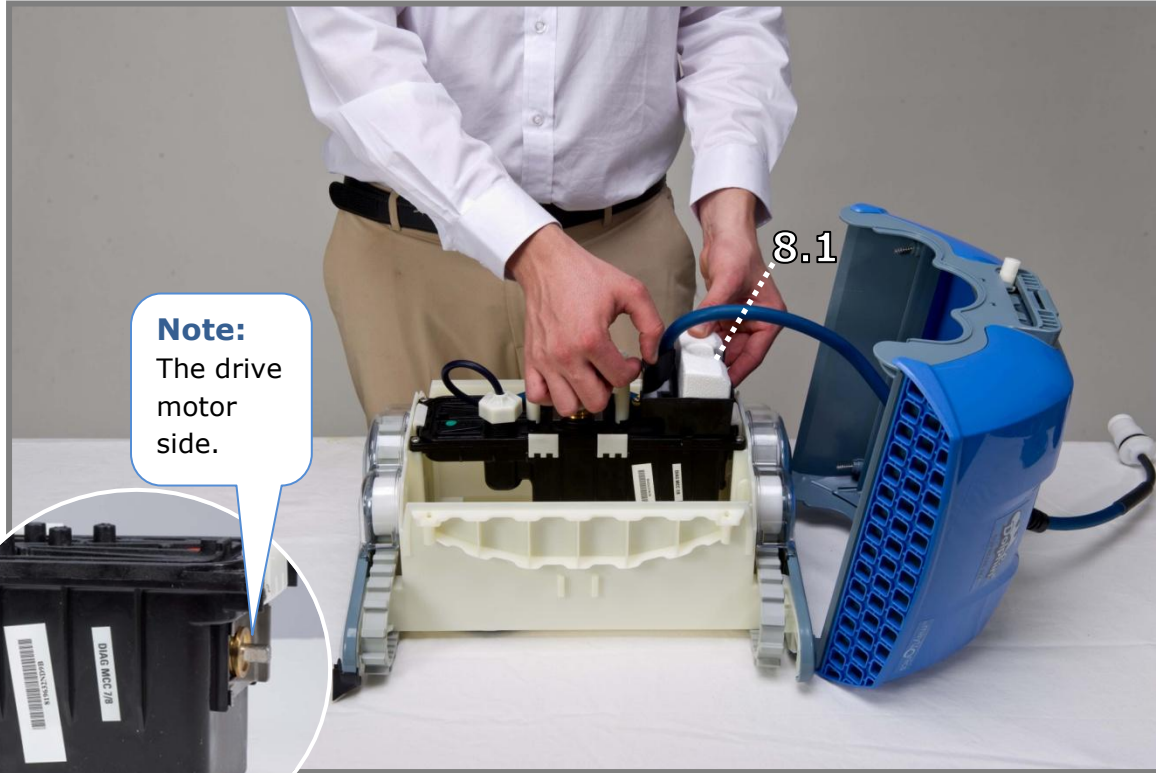


**Note:**  
Screw the cable holders gently.

**Step 7.7**  
Secure the cable holders with 4X KA50X12 screws.

# Supreme M4 Assembly Instructions

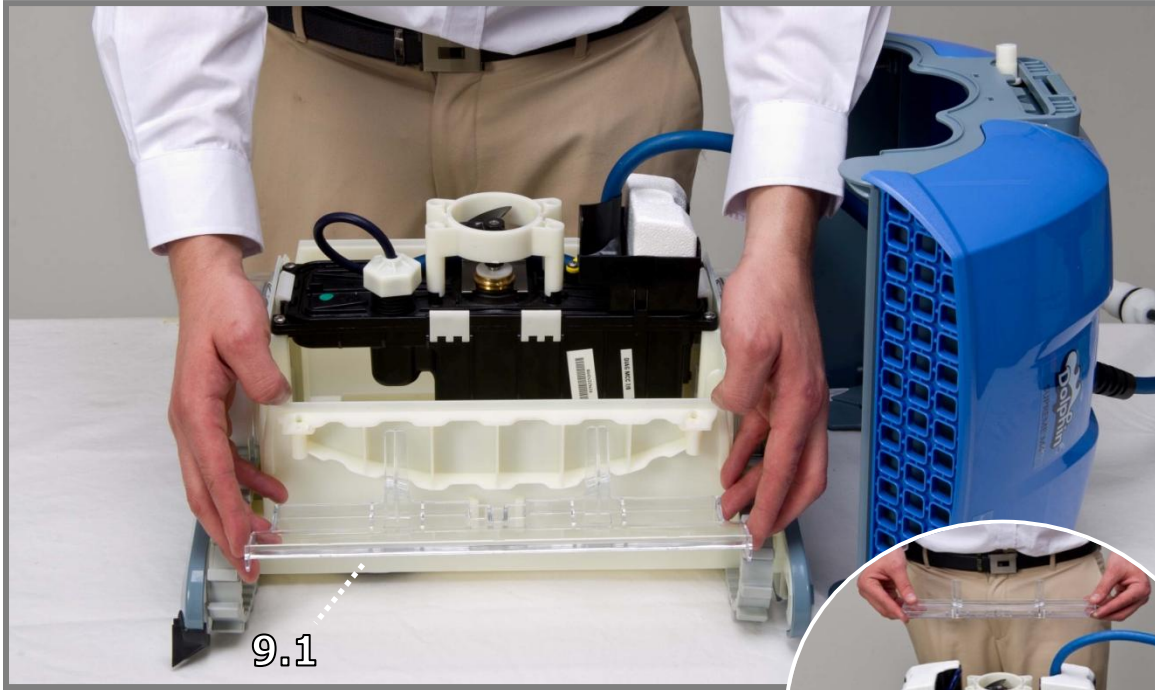
## 8. Positioning the Float



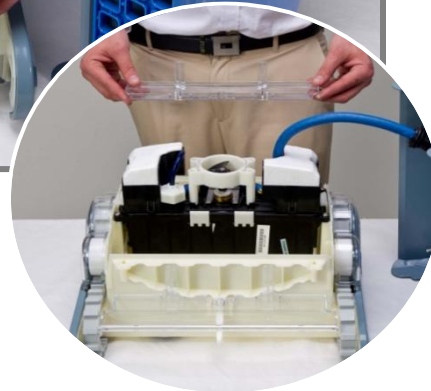
**Step 8.1**  
Place the float on the motor unit, on the drive motor side as shown.

# Supreme M4 Assembly Instructions

## 9. Positioning the Brush Covers

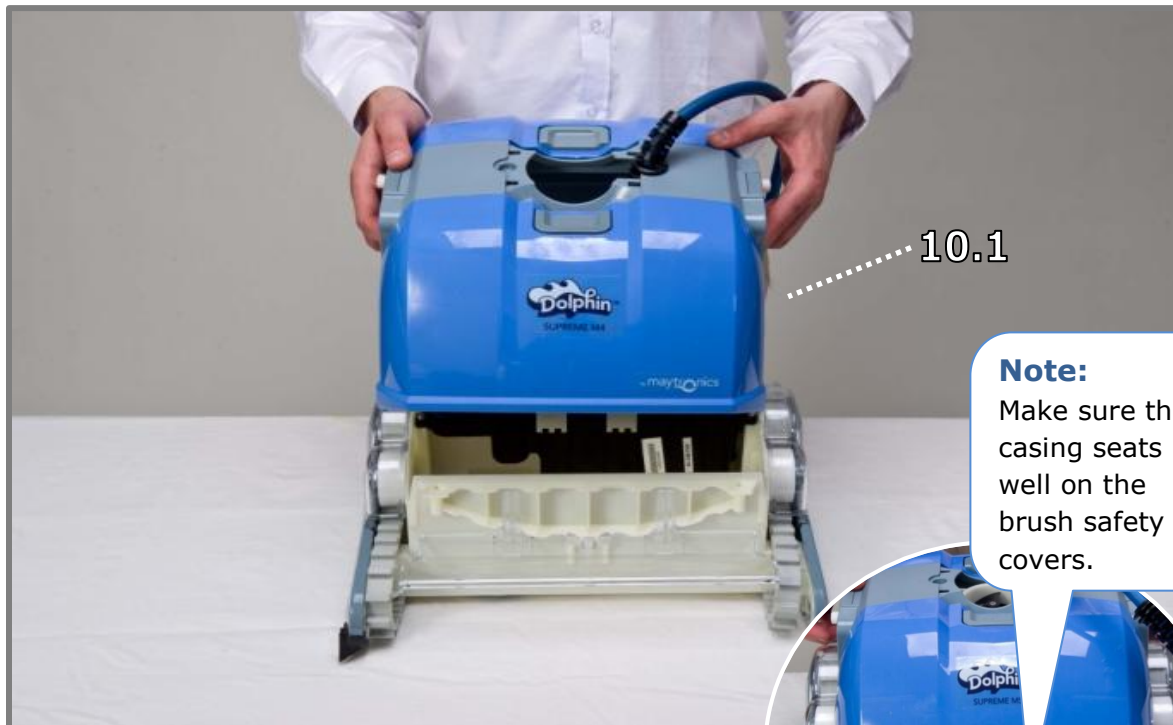


**Step 9.1**  
Position the 2  
brush safety  
covers.



# Supreme M4 Assembly Instructions

## 10. Assembling the Outer Casing



**Step 10.1**  
Place the outer casing on the frame.

**Note:**

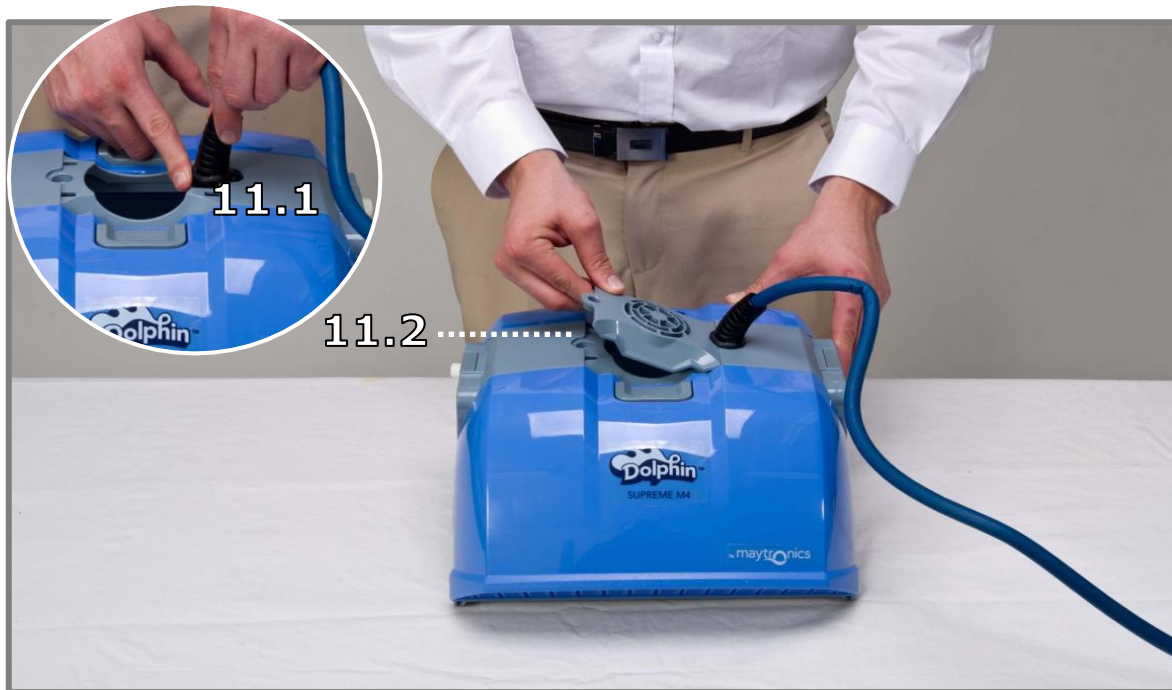
Make sure the casing seats well on the brush safety covers.



**Step 10.2**  
Secure the outer casing to the frame with 4X KA50X20 screws.

# Supreme M4 Assembly Instructions

## 11. Assembling the Impeller Cover



**Step 11.1**  
Place the cable support in its place on the outer casing before closing the impeller cover.

**Step 11.2**  
Position the impeller cover diagonally on the outer casing.



**Step 11.3**  
Secure the impeller cover with a KA50X12 screw.



# Supreme M4 Assembly Instructions

## 12. Assembling the Handle



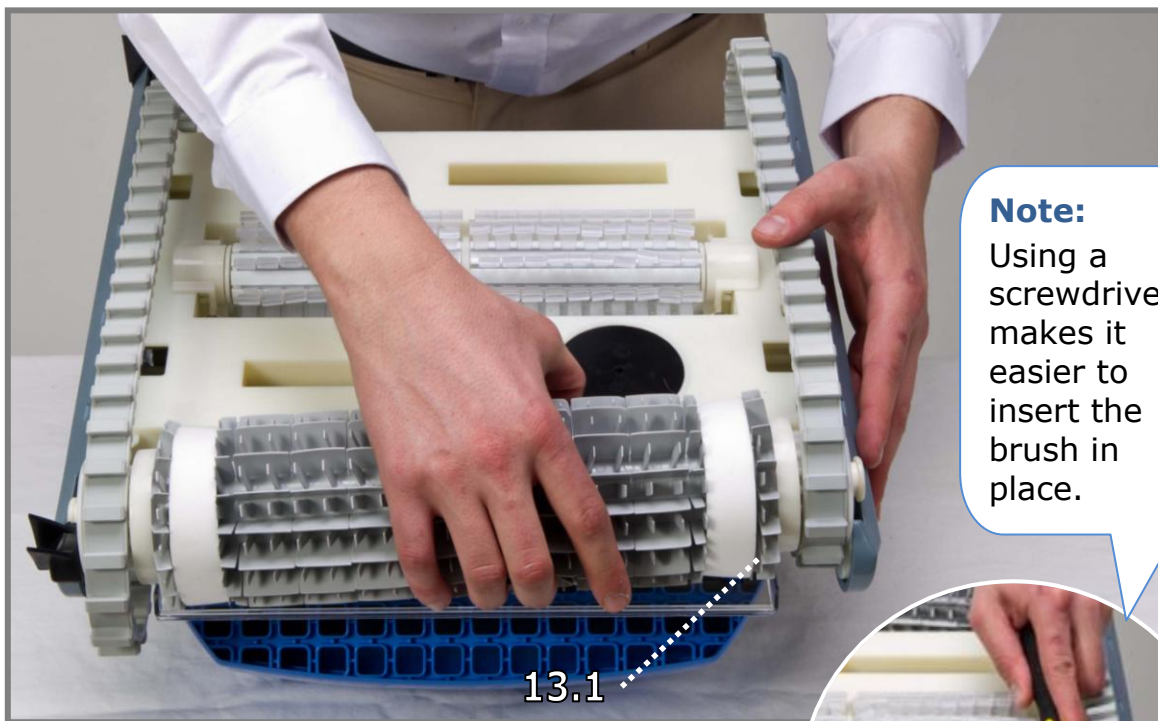
**Step 12.1**  
Position the handle.



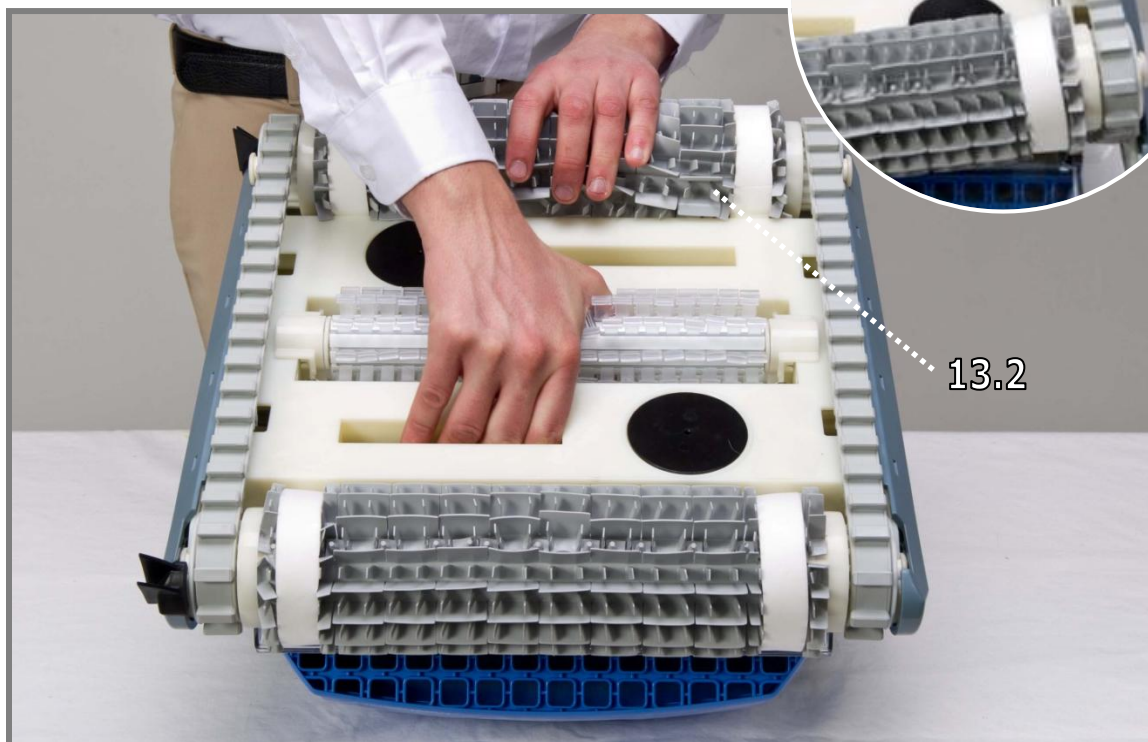
**Step 12.2**  
Secure the handle in place with 2 KA50X20 screws.

# Supreme M4 Assembly Instructions

## 13. Assembling the Brushes



**Step 13.1**  
Place one brush in place.



**Step 13.2**  
Place the second brush in its place by pulling it strongly towards you.

# Supreme M4 Disassembly Instructions

## Table of Contents

- 1. Dismantling the Handle ..... 2**
- 2. Dismantling the Impeller Cover ..... 3**
- 3. Dismantling the Outer Casing ..... 4**
- 4. Dismantling the Cable ..... 5**
- 5. Disassembling the Motor Unit ..... 6**
- 6. Dismantling the Side Panels ..... 7**
- 7. Dismantling the Driving System ..... 8**
- 8. Dismantling the Brushes ..... 9**
- 9. Dismantling the Diaphragms ..... 10**

# Supreme M4 Disassembly Instructions

## 1. Dismantling the Handle



### Step 1.1

Unscrew the 2 screws holding the handle in place.

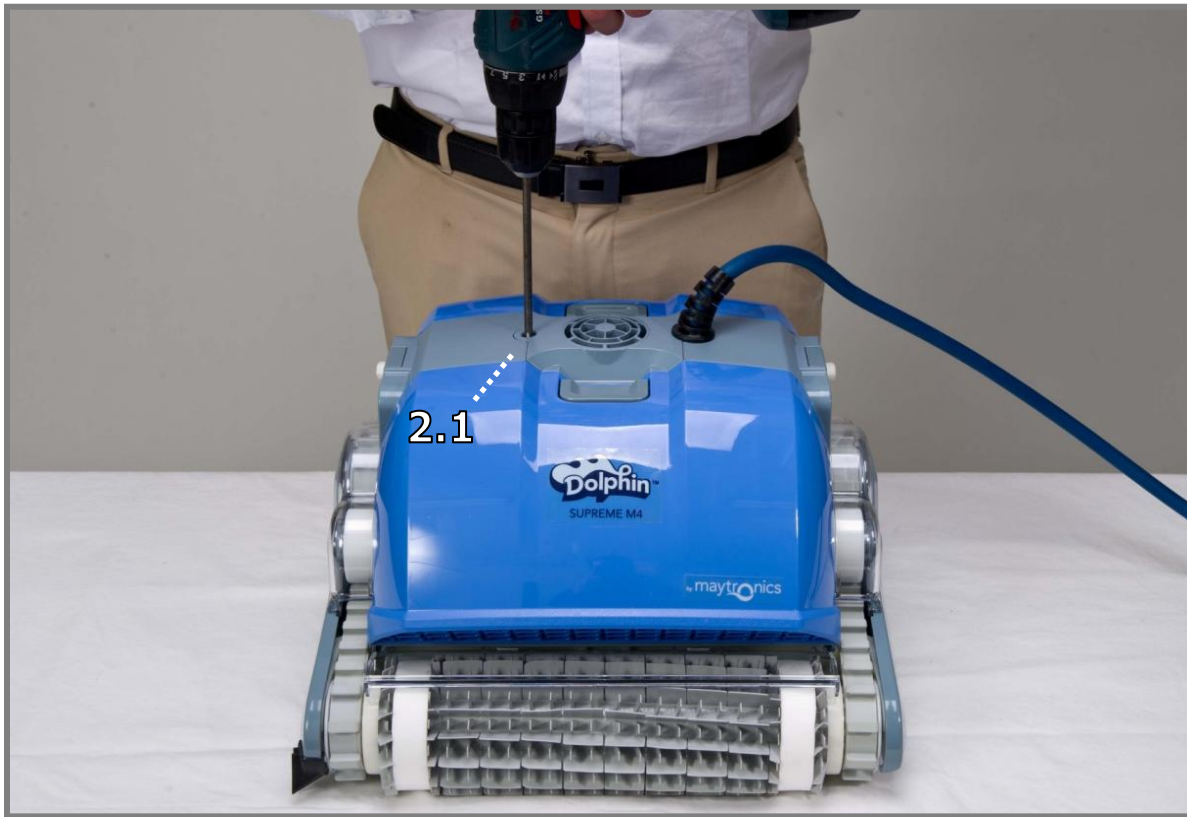


### Step 1.2

Take the handle off.

# Supreme M4 Disassembly Instructions

## 2. Dismantling the Impeller Cover



### Step 2.1

Unscrew the screw holding the impeller cover in place.



### Step 2.2

Lift the impeller cover up from one side and then take it off.

# Supreme M4 Disassembly Instructions

## 3. Dismantling the Outer Casing



### Step 3.1

Unscrew the 4 screws holding the outer casing in place.

### Step 3.2

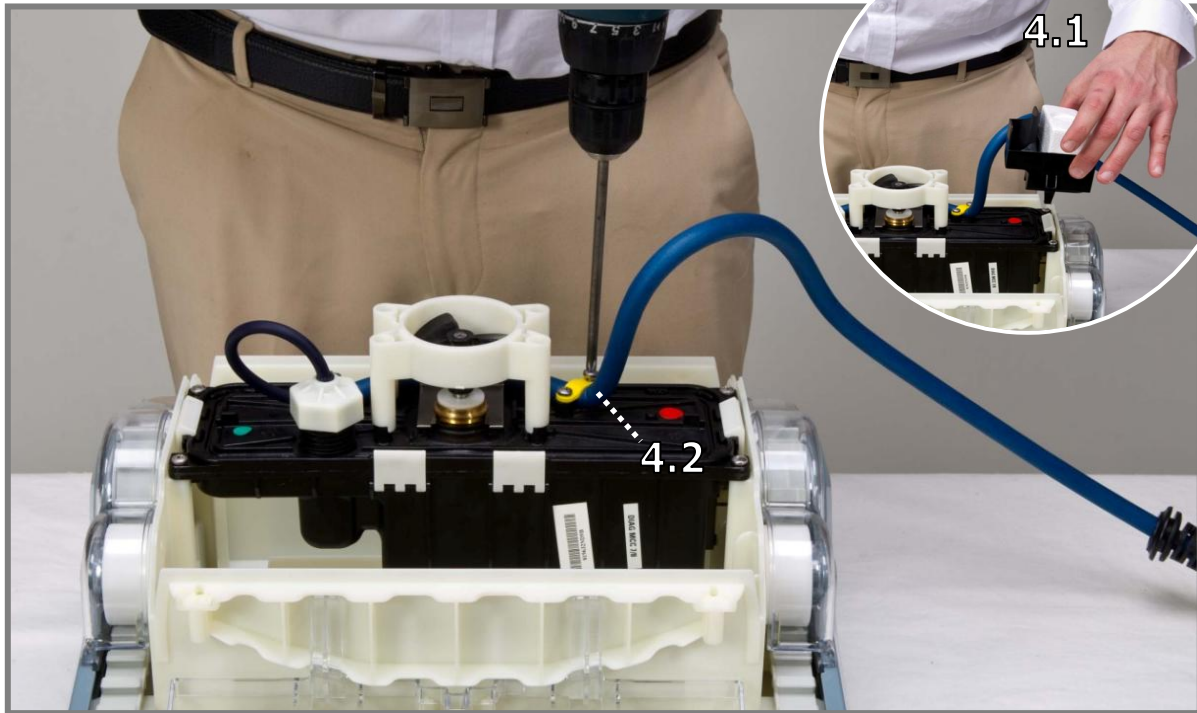
Remove the black grommet before taking off the outer casing.

### Step 3.3

Hold the outer casing on both sides and pull it up.

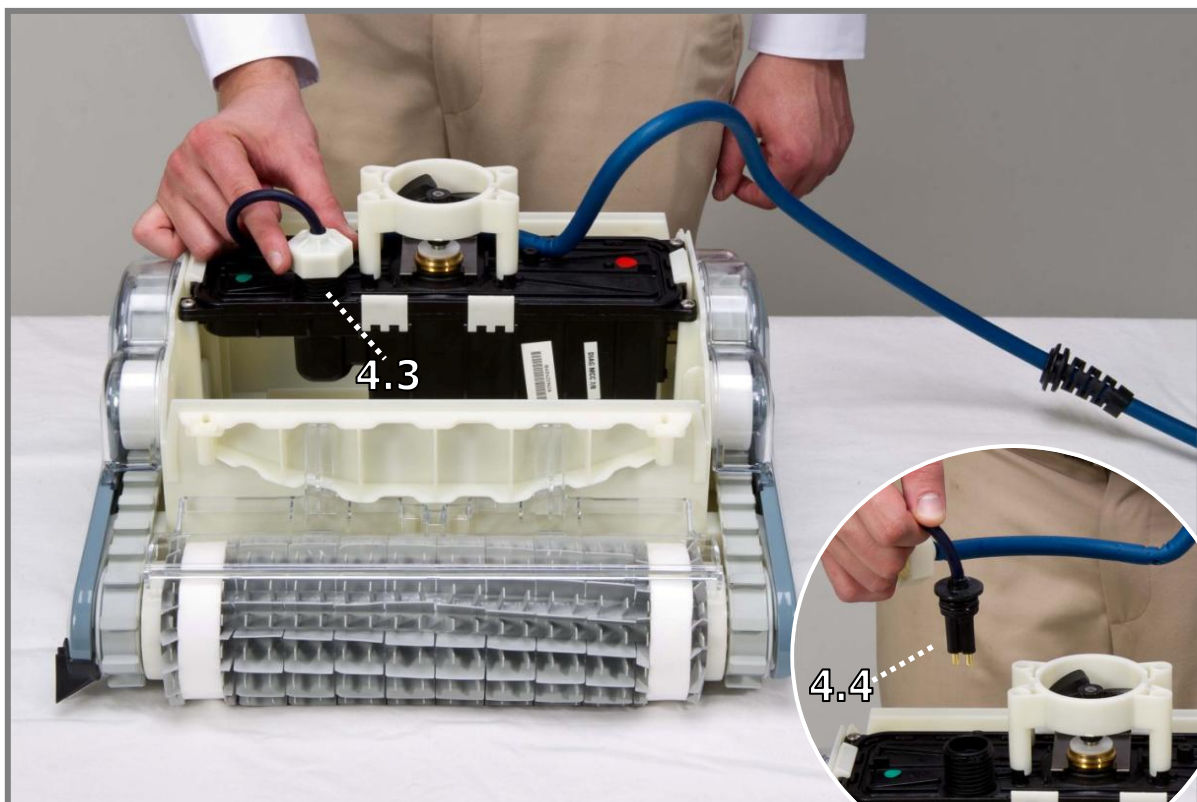
# Supreme M4 Disassembly Instructions

## 4. Dismantling the Cable



**Step 4.1**  
Remove the float from the motor unit.

**Step 4.2**  
Unscrew the 4 screws securing the cable holder.

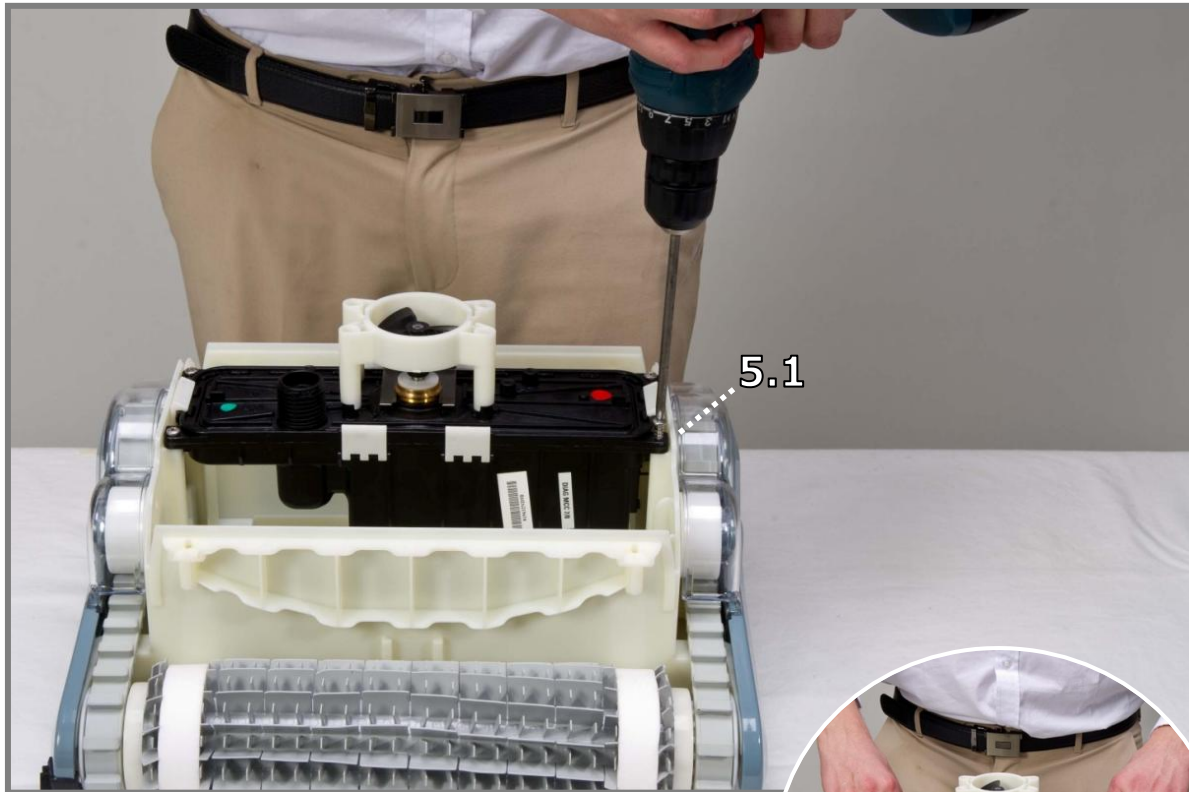


**Step 4.3**  
Unscrew the cable from the motor unit.

**Step 4.4**  
Unplug the cable.

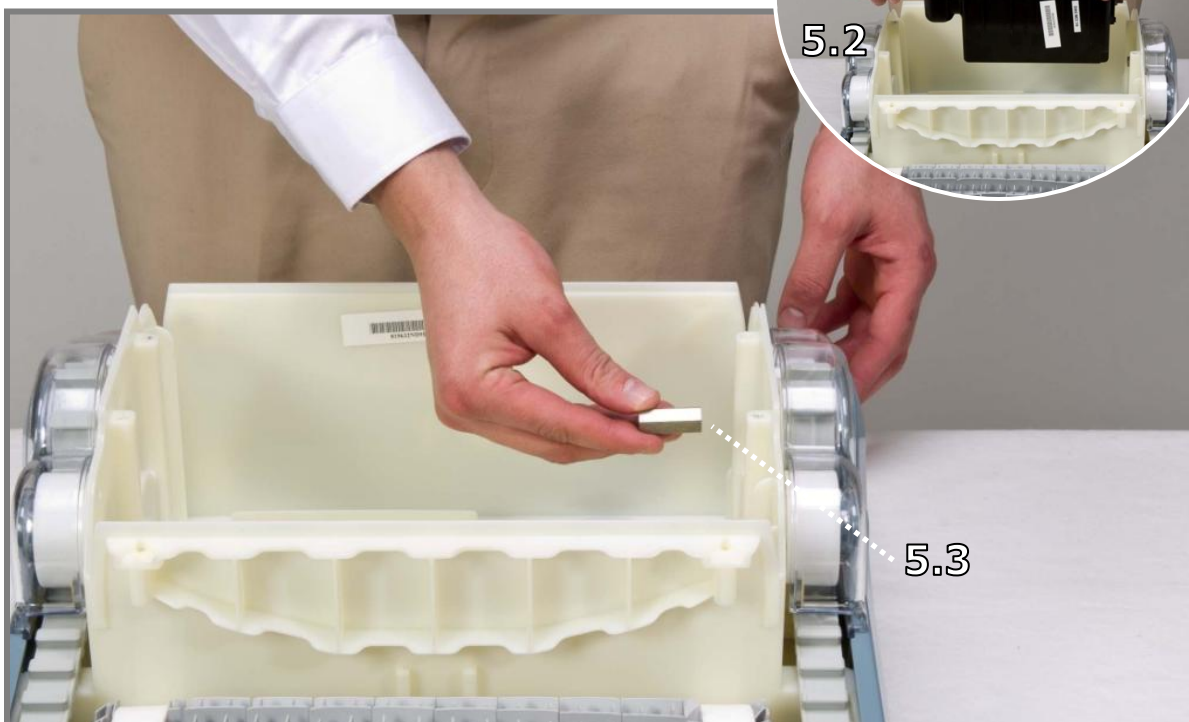
# Supreme M4 Disassembly Instructions

## 5. Disassembling the Motor Unit



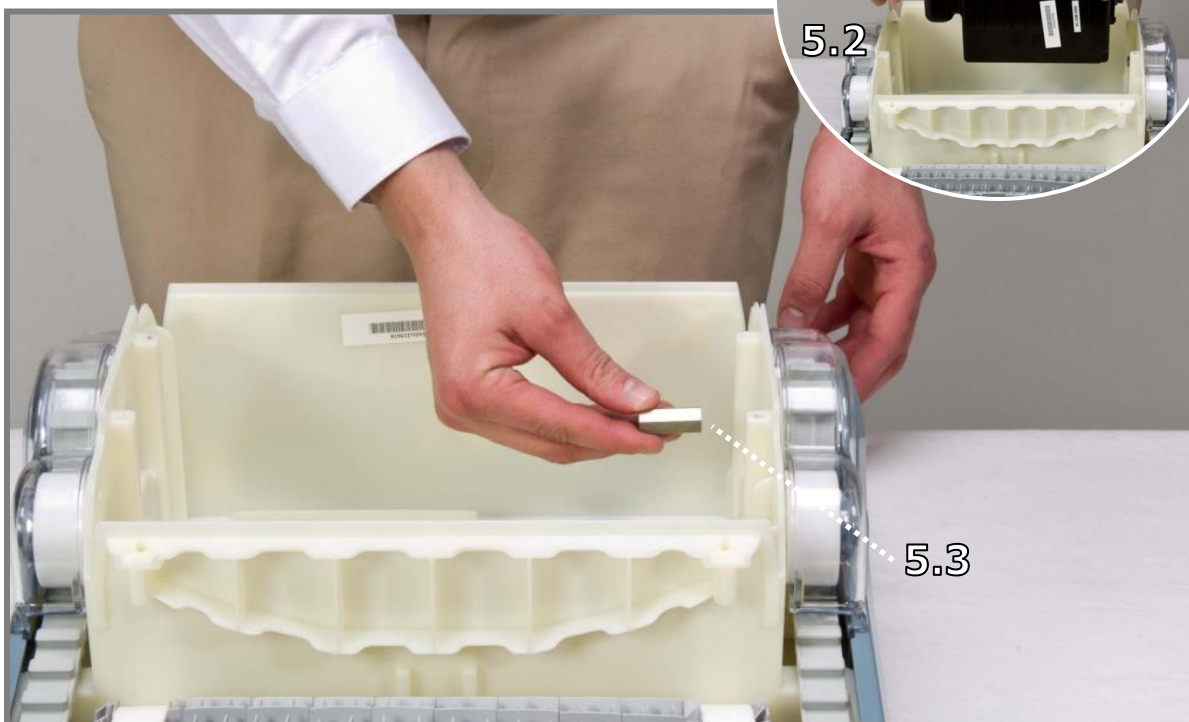
### Step 5.1

Unscrew the 4 screws securing the motor unit to the frame.



### Step 5.2

Remove the motor unit



### Step 5.3

Remove the hexagon adapter.

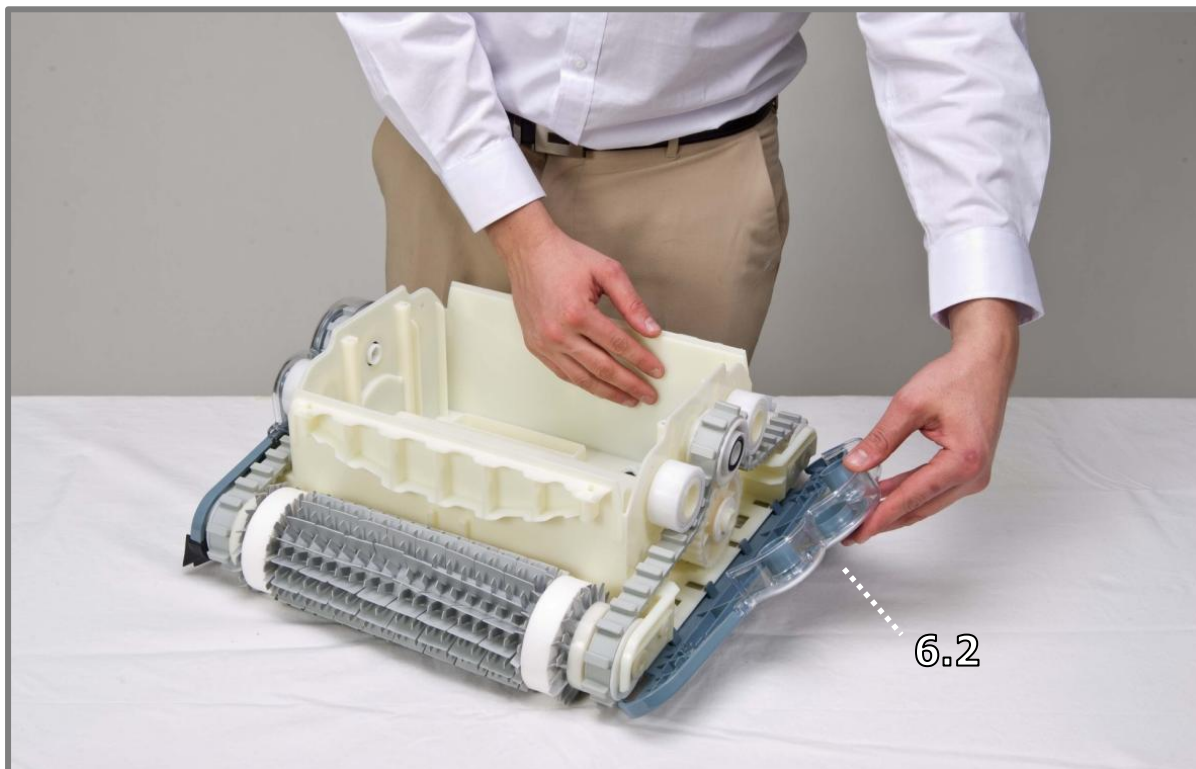


# Supreme M4 Disassembly Instructions

## 6. Dismantling the Side Panels



**Step 6.1**  
Unscrew the 4  
screws holding  
each panel in  
place.



**Step 6.2**  
Pull the side panels  
off.

# Supreme M4 Disassembly Instructions

## 7. Dismantling the Driving System



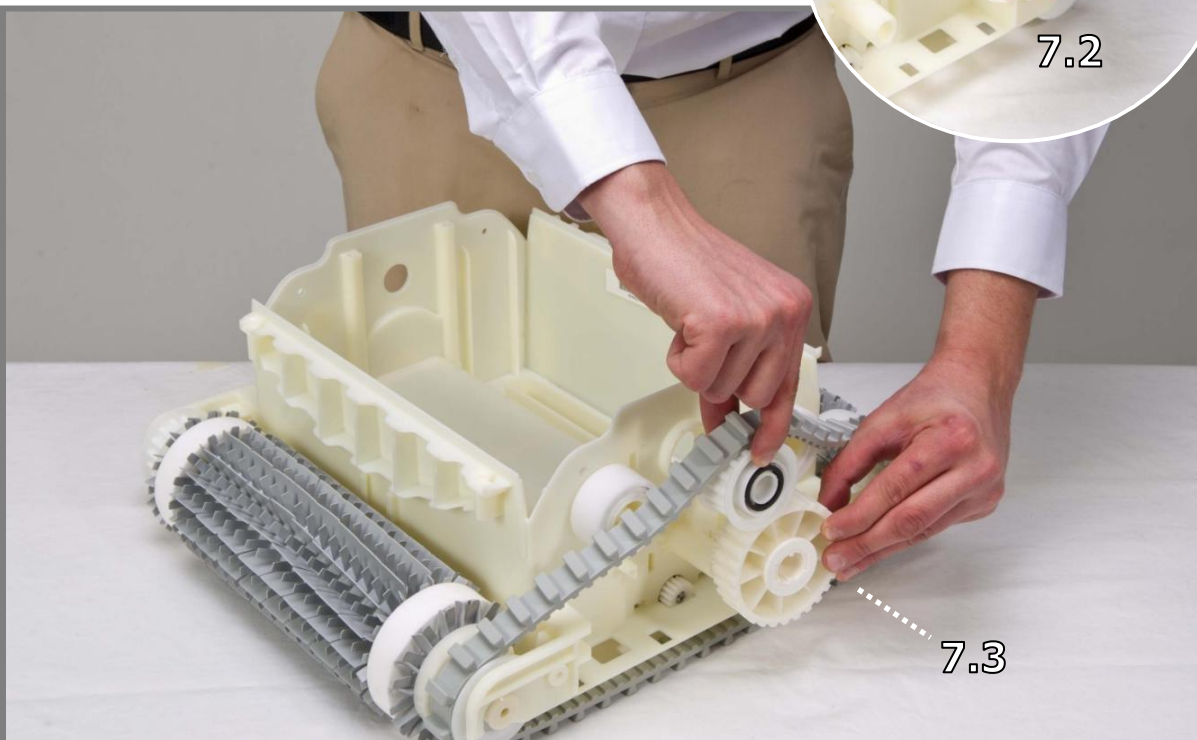
### Step 7.1

Remove the pulley together with the track from one side of the robot.



### Step 7.2

Remove guide wheels.

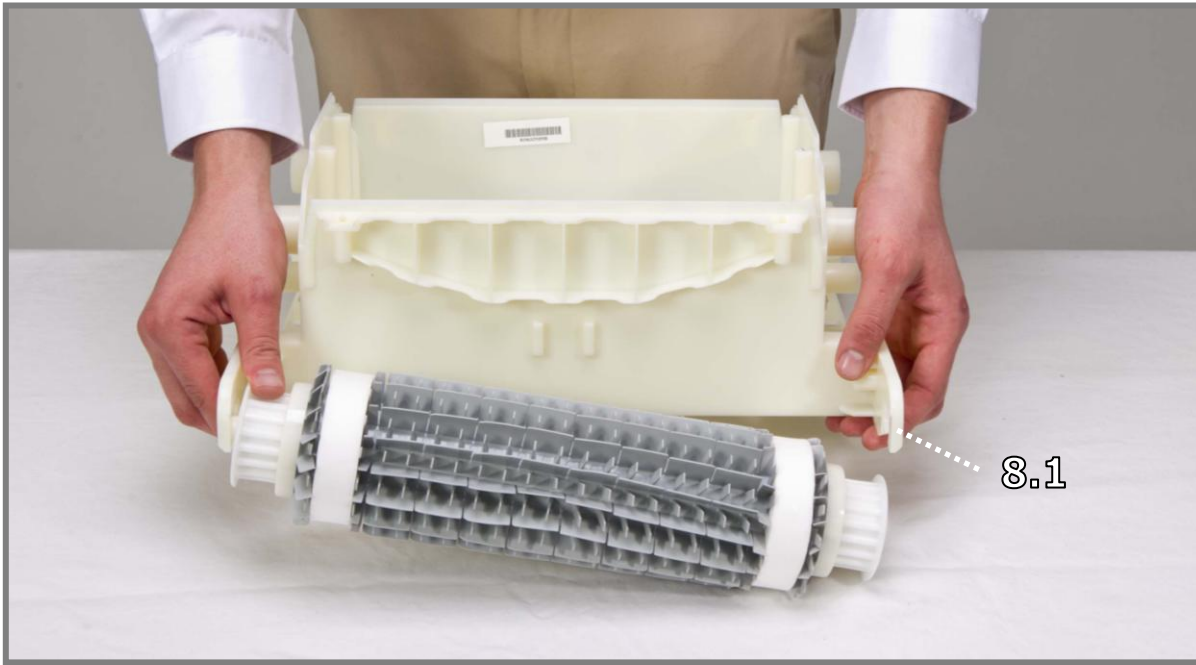


### Step 7.3

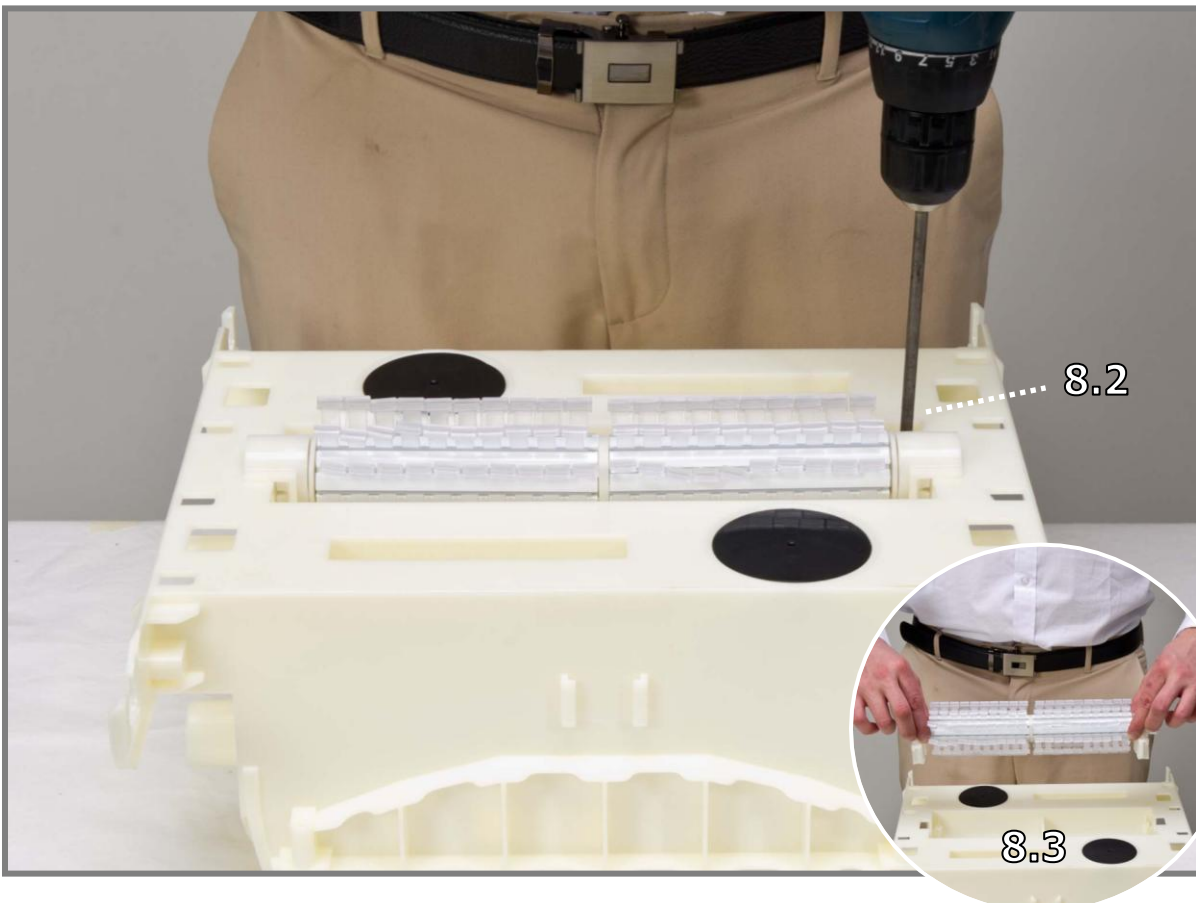
Remove the pulley together with the track and Active Brush's driving wheel from the other side of the robot.

# Supreme M4 Disassembly Instructions

## 8. Dismantling the Brushes



**Step 8.1**  
Remove the  
brushes.

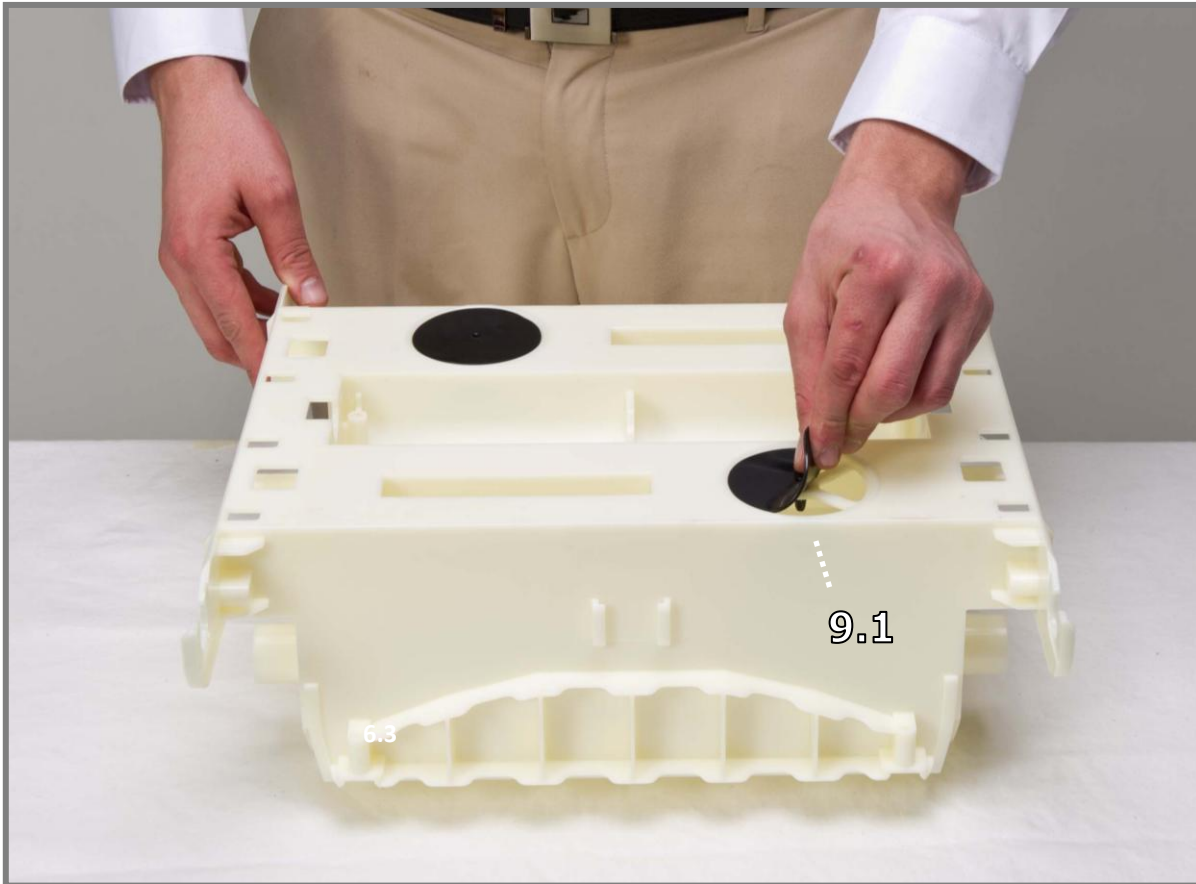


**Step 8.2**  
Open the 4 screws  
holding the active  
brush in place.

**Step 8.3**  
Remove the Active  
Brush.

# Supreme M4 Disassembly Instructions

## 9. Dismantling the Diaphragms



**Step 9.1**  
Remove the 2  
diaphragms.